Datasheet for ABIN7319279

FTL Protein (His tag)

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Overview

Quantity:	50 µg
Target:	FTL
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FTL protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human FTL Protein (His Tag)
Sequence:	Met 1-Asp175
Characteristics:	Recombinant Human Ferritin light chain is produced by our E.coli expression system and the target gene encoding Met1-Asp175 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	FTL
Alternative Name:	FTL (FTL Products)
Background:	Background: Ferritin is a large, iron-storage heteropolymeric protein,which is expressed in most kinds of cells and co-assemble in different proportion in a tissue-specific manner. Ferritin has oligomer of 24 subunits and two types of subunits including light chain(FTL) and heavy chain.

Target Details

	Ferritin can remove Fe (II) from solution in the presence of oxygen and is very important for iron homeostasis. Iron is absorbed in the ferrous form and deposited as ferric hydroxides after oxidation. Iron is first oxidized to the ferric state for storage as ferric oxyhdroxide whithin the protein shell of ferritin. Thus, ferritin removes excess iron from the cell sap where it could otherwise participate in peroxidation mechanisms. Ferritin also plays a role in delivery of iron to cells and mediates iron uptake in capsule cells of the developing kidney. Synonym: Ferritin L subunit,Ferritin light chain, FTL
Molecular Weight:	24.5 kDa
UniProt:	P02792
Pathways:	Transition Metal Ion Homeostasis

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris,250 mM NaCl,1 mM EDTA, pH 9.5.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.